Re: Recently Sent Documents

Wren Stenger to: craig w. holmes — 08/31/2012 12:16 PM
Cc: Stacey Dwyer
Bcc: Philip Dellinger

From: Wren Stenger/R6/USEPA/US
To: "craig w. holmes" <pommelhouse@sbcglobal.net>
Cc: Stacey Dwyer/R6/USEPA/US@EPA
Bcc: Philip Dellinger/R6/USEPA/US

Hello Craig,

Stacey and her technical folks are out until Tuesday, and thanks for your help in finding the specific information.

For the gradients, we are specifically interested in the raw data the UEC used to calculate the mean gradients included in the table you sent previously. Here is that table.

GW Gradients Aug 27 2012.xlsx

Hope this helps identify what we need to see. Thanks

"craig w. holmes" — Stacey, In talking with Harry yesterday he indicat... — 08/31/2012 11:33:06 AM

From: "craig w. holmes" <pommelhouse@sbcglobal.net>
To: Stacey Dwyer/R6/USEPA/US@EPA
Cc: Wren Stenger/R6/USEPA/US@EPA
Date: 08/31/2012 11:33 AM
Subject: Recently Sent Documents

Stacey,

In talking with Harry yesterday he indicated that Sam wanted UEC to send two pieces of information to you and Wren. The two pieces of information are: (1)derivation of gradients and (2) where to find Sand A (OMW wells)Pump Test tables in Appendix D. The quickest and easiest way to do this is for me to attach the documents that I sent to Sam, Ray, you, etc. on August 17.

The attached tables (see D1 and D2 file) are taken from Appendix D, which was sent previously. D1 and D2 show all 9 OMW (Sand A Wells) that were part of the PA-1 Pump Test and hydrology assessment. The hydrology assessment is also attached (see PAA-1). I made red highlights of the pertinent material in PAA-1). You can find the Sand A Tables (OMWs) in Appendix D -- the tables appear very much at the end of the 498 page document. Just go to the end of Appendix D and scroll up 4 or 5 pages and you will see the OMW results. Also attached is the Pump Test Readers Guide that we provided on August 17. The guide is just a short and concise summary of where to find pertinent information regarding the pump test and its conclusions.

With regard to gradients, UEC relied on detailed measurements used in two pump tests (the Northwest Fault Test and the PAA-1 Test), a calibrated model, various other water level measurements, literature, calculations, etc. I will send you a more precise account of the derivation of the gradients in a follow up email shortly.

Well, I hope this packet of information is helpful. It should not take you very much time to go through it.

Lastly, if you or Wren would like to have a conference call to discuss any questions you might have I would be pleased to help out. UEC appreciates your attention on the project. Thanks.

craig w. holmes

********** ATTACHMENT NOT DELIVERED **********

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[EPA, EPA Docs.zip]
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If the message sender is known and the attachment was legitimate, you should contact the sender and request that they rename the file name extension and resend the Email with the renamed attachment. After receiving the revised Email, containing the renamed attachment, you can rename the file extension to its correct name.

For further information, please contact the EPA Call Center at (866) 411-4EPA (4372). The TDD number is (866) 489-4900.

********** ATTACHMENT NOT DELIVERED **********

		Gradient				
	Gradient	Direction				
Sand	Mean	Mean				
A (regional)	0.00125	86.39				
B (regional)	0.00220	122.01				
C (regional)	0.00199	118.78				
D (regional)	0.00292	103.55				
A (OMW)	0.00061	92.86				
B (BMW ed)	0.00061	89.60				
A (graben ed)	0.00047	83.40				
Grid points were eliminated if gradient directions not between 0 and 270 degrees						